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Andrew R. Ferlitsch

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EXAMINER

HUNTSINGER, PETER K

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/676,984	Applicant(s) FERLITSCH, ANDREW R.	
	Examiner Peter K. Huntsinger	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 December 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 12/7/09 have been fully considered but they are not persuasive.

The Applicant argues on pages 11 and 12 of the response in essence that: Smith '162 teaches against combination with Sinofsky '178 because it disparages elaborate file structures.

a. Smith '162 mentions elaborate file structures that do not utilize an object oriented approach to document production (col. 1, lines 60-67). Sinofsky '178 concerns storing data in a compound document containing sub-files that may be organized hierarchically (col. 2, lines 39-49). Because Sinofsky '178 involves a compound document containing sub-files organized hierarchically, it does not involve an elaborate file structures without an object oriented approach to document production. Therefore, Smith '162 does not teach away from the combination of Sinofsky '178.

The Applicant argues on page 12 of the response in essence that: The Office Action does not show that one of skill in the art would find it obvious to utilize the complex database management system of Smith '162 in a rendering device as claimed or that one of skill in the art would find it obvious to overcome the differences between the claimed invention and the cited references.

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b. Smith '162 discloses linking a first sub-image with a second sub-image (col. 10, lines 35-47, storing the identifier of the parent object is sufficient to link the list to the subordinate "offspring" object), and wherein the second sub-image is rendered as part of the first sub-image which is rendered as part of one of the pages of the document (col. 14, lines 45-59, content object containing text, image or graphic content can be a block object within a frame object) (col. 2, lines 61-64, objects are assembled and printed). In response to applicant's argument that one of skill in the art would not find it obvious to combine the complex database management system of Smith '162 in a rendering device as claimed, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references.

Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

The Applicant argues on page 13 of the response in essence that:

Venable '983 does not disclose electronic tags of a TIFF document as claimed.

c. Warmus '149 discloses a TIFF document file (col. 23, lines 21-23, files 122, 137, and 138 preprocessed to TIFF format). Venable '983 discloses Venable '983 discloses using electronic tags of a document file and merging sub-images based on the electronic tags (col. 13-14, lines 48-67, 1-5, merge tags

specify merging objects). In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

The Applicant argues on pages 13 and 14 of the response in essence that: The proposed combination of references fail to teach the claimed elements in relation to a single TIFF document file.

d. Warmus '149 discloses that the master page PDL files 122 and the variable page PDL files 137, 138 may be premerged [i.e. merged into one file] (col. 23, lines 21-23). Warmus '149 further discloses that the master page PDL files 122 and the variable page PDL files 137, 138 are preprocessed to TIFF format(col. 23, lines 21-23).

The Applicant argues on pages 14 and 15 of the response in essence that: Venable '983 teaches against the proposed combination that uses the single file teachings of Sinofsky '178.

e. Venable '983 is only relied on to teach using one or more tags within the file defining how one or more pages of the document should be merged (col. 13-14, lines 48-67, 1-5, merge tags specify merging objects). Using tags to define merging would allow utilizing a format that has minimal memory requirements but

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produces high resolution, high quality printed images. Venable '983 does not require a separate file containing the parameters defining how one or more pages of the document should be merged. Merely because Venable '983 discusses maintaining various image components in different files does not establish that a person of ordinary skill in the art would not recognize the benefit of using tags to define merging to the system of Warmus '149. Therefore, Venable '983 does not teach away from the combination of Sinofsky '178.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-7, 9, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warmus '149 in view of Simpson '803, Sinofsky '178 and Smith '162.

Referring to **claim 1**, Warmus '149 discloses in an image rendering environment, a method for dynamically adding one or more document indicia to a document when rendering the document, the method comprising:

providing a rendering job in a native format that supports at least one of (i) multiple pages, and (ii) multiple images (col. 7, lines 1-6, page description language);

storing one or more document indicia (col. 9, lines 57-61, personalized information, variable image, or the like) as separate sub-images in a native format (col. 7, lines 1-6, variable page files);

correlating one or more pages of the document with one or more of the sub-images (col. 7, lines 24-36, master and variable page files merged);

defining an ordered subset of the sub-images to apply to the document (col. 7, lines 6-10, press command file specifies the manner in which the master and variable files are to be merged);

wherein a rendering device:

receives the single file in the native format (col. 23, lines 21-35, process the TIFF file for printing); and

renders the rendering job, wherein the one or more sub-images are rendered as parts of the one or more pages of the document based on an association process, wherein the association process is one of (i) an overlay process, (ii) an underlay process, and (iii) a composite process (col. 20, lines 1-10, overlay the variable pages on the master pages).

Warmus '149 does not disclose expressly rendering the document without using a printer driver.

Simpson '803 discloses rendering a document without using a printer driver (col. 1, lines 39-51, computer generates a print job without the use of a print driver).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to generate a document without using a printer driver. The motivation for doing

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so would have been to eliminate the need to specifically configure a computer to make use of many printers.

Warmus '149 does not disclose expressly storing separate sub-images in the single file.

Sinofsky '178 discloses a single file document containing separate sub-images (col. 3, lines 6-19, compound document that contains sub-files); and

providing links within the file linking one or more pages of the document with one or more of the sub-images (col. 3, lines 30-34, text file 102 contains link 121 and 122 to other files).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to incorporate multiple files into one comprehensive file and provide links within that file. The motivation for doing so would have been to maintain the integrity of the comprehensive file.

Warmus '149 does not disclose expressly linking a first sub-image with a second sub-image, and rendering the second sub-image as part of first sub-image.

Smith '162 discloses linking a first sub-image with a second sub-image (col. 10, lines 35-47, storing the identifier of the parent object is sufficient to link the list to the subordinate "offspring" object), and

wherein the second sub-image is rendered as part of the first sub-image which is rendered as part of one of the pages of the document (col. 14, lines 45-59, content object containing text, image or graphic content can be a block object within a frame object) (col. 2, lines 61-64, objects are assembled and printed).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to render a second sub-image as part of a first sub-image. The motivation for doing so would have been to facilitate modular construction of complex documents with considerable flexibility. Therefore, it would have been obvious to combine Simpson '803, Sinofsky '178 and Smith '162 with Warmus '149 to obtain the invention as specified in claim 1.

Referring to **claim 2**, Warmus '149 discloses wherein the native format is one of:

- (i) a tagged image file format; and
- (ii) a portable document format (col. 4, lines 21-31, TIFF file).

Referring to **claim 3**, Warmus '149 discloses wherein the document indicia is disbound from page data of the rendering job (col. 20, lines 1-10, overlay the variable pages on the master pages).

Referring to **claim 4**, Warmus '149 discloses wherein correlating one or more pages of the document with one or more of the sub-images comprises a linking the one or more pages in a next list (col. 7, lines 6-10, press command file specifies the manner in which the master and variable files are to be merged).

Sinofsky '178 discloses linking one or more pages of the document with one or more of the sub-images (col. 3, lines 30-34, text file 102 contains link 121 and 122 to other files).

Referring to **claim 5**, Warmus '149 discloses wherein correlating one or more pages of the document with one or more of the sub-images comprises a sub-chaining the one or more sub-images from page images by a sub list (col. 7, lines 6-10, press

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command file specifies the manner in which the master and variable files are to be merged).

Sinofsky '178 discloses linking one or more pages of the document with one or more of the sub-images (col. 3, lines 30-34, text file 102 contains link 121 and 122 to other files).

Referring to **claim 6**, Warmus '149 discloses wherein correlating one or more pages of the document with one or more of the sub-images comprises sub-chaining the one or more sub-images within sub-images (col. 11-12, lines 62-67, 1-22, object inserted defined by curser, user can insert multiple objects).

Sinofsky '178 discloses linking one or more pages of the document with one or more of the sub-images (col. 3, lines 30-34, text file 102 contains link 121 and 122 to other files).

Referring to **claim 7**, Warmus '149 discloses wherein defining an ordered subset of the sub-images comprises creating a set of instructions in one of

- (i) a dynamic manner, and
- (ii) a static manner (col. 20, lines 49-54).

Referring to **claim 9**, Warmus '149 discloses wherein all the sub-images are in the native format (col. 4, lines 21-31, TIFF file).

Sinofsky '178 discloses a single file document containing separate sub-images (col. 3, lines 6-19, compound document that contains sub-files).

Referring to **claim 11**, Warmus '149 discloses wherein the native format is an image format (col. 4, lines 21-31, TIFF file).

Referring to **claim 12**, Simpson '803 discloses wherein rendering the rendering job occurs within a printing device rendering and printing the document without rasterization (col. 1, lines 39-51, computer generates a print job without the use of a print driver).

4. Claims 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Warmus '149, Simpson '803, Sinofsky '178 and Smith '162 as applied to claim 1 above, and further in view of Janse '434.

Referring to **claim 8**, Warmus '149 discloses wherein the one or more sub-images are placed at one or more locations of the one or more pages of the document and at one or more scales defined by information, the information being defined independently of the pages of the document (col. 20, lines 17-23, instruction set specifying how the pages should be positioned is incorporated into press command file 140).

Warmus '149 does not disclose expressly storing the location and scale information within the single document file.

Janse '434 discloses a single document file containing print setting information (Fig. 6, col. 7, lines 23-37, TIFF file comprises tear-off part 37 which defines print settings).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to incorporate print setting information into one comprehensive document file. The motivation for doing so would have been to provide easier methods of handling,

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processing and archiving the single file. Therefore, it would have been obvious to combine Janse '434 with Warmus '149 to obtain the invention as specified in claim 8.

5. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Warmus '149, Simpson '803, Sinofsky '178 and Smith '162 as applied to claim 1 above, and further in view of well known prior art.

Referring to **claim 10**, Warmus '149 discloses wherein the overlay process includes applying an overlay on top of one of:

- (i) a page image; and
- (ii) another sub-image (col. 20, lines 1-10, overlay the variable pages on the master pages).

Warmus '149 does not disclose expressly applying an underlay process.

Official Notice is taken that it is well known and obvious in the art to apply an underlay (See MPEP 2144.03). The motivation for doing so would have been to retain the information of the master page of the overlapping region as opposed to the variable page. Therefore it would have been obvious to combine well known prior art with Warmus '149 to obtain the invention as specified in claim 10.

6. Claims 13, 15 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warmus '149 in view of Wu '767, and Venable '983.

Referring to **claim 13**, Warmus '149 discloses in a printing environment, a method for adding document indicia when printing an image, the method comprising:

using a multi-subfile extension (Fig. 5, col. 11, lines 18-29, file 130 includes file portions) to represent multiple sub-images of a TIFF image within a single TIFF document file, wherein data of the TIFF image is not converted into printing instructions by an application (col. 23, lines 21-23, files 122, 137, and 138 preprocessed to TIFF format);

using an extension to group and locate the sub-images on a page (Fig. 5, col. 11, lines 18-29, file 130 includes file portions);

performing at least one of:

supporting an overlay of the multiple sub-images on the page (col. 20, lines 1-10, overlay the variable pages on the master pages).;

supporting an underlay of the multiple sub-images on the page;

supporting a composite of the multiple sub-images on the page;

specifying a merge order of the multiple sub-images on the page;

specifying a location for merging the multiple sub-images on the page; and

specifying any scaling of the multiple sub-images; and

selectively rendering the TIFF image based on the electronic tags (col. 23, lines 21-35, process the pages for printing).

Warmus '149 does not disclose expressly rendering the document without using a printer driver.

Wu '767 discloses printing an image without the use of a printer driver;

providing the single TIFF document file to a printer in TIFF format without using a printer driver; and

selectively rendering the TIFF image at the printer (col. 3, lines 18-35, image data such as a TIFF file may be directly printed without external software).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to generate a document without using a printer driver. The motivation for doing so would have been to reduce the processing required for printing.

Warmus '149 discloses merging images onto a page but does not disclose expressly using electronic tags of a TIFF document file.

Venable '983 discloses using electronic tags of a TIFF document file (col. 13-14, lines 48-67, 1-5, merge tags specify merging objects); and

merging sub-images based on the electronic tags (col. 13-14, lines 48-67, 1-5, merge tags specify merging objects).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to utilize electronic tags to merge images. The motivation for doing so would have been to utilize a format that has minimal memory requirements but produces high resolution, high quality printed images. Therefore, it would have been obvious to combine Wu '767 and Venable '983 with Warmus '149 to obtain the invention as specified in claim 13.

Referring to **claim 15**, Warmus '149 discloses specifying both a location for merging the multiple sub-images on the page and scaling of the multiple sub-images (col. 20, lines 17-23, instruction set specifying how the pages should be positioned is incorporated into press command file 140).

Venable '983 discloses using electronic tags of a TIFF document file (col. 13-14, lines 48-67, 1-5, merge tags specify merging objects).

Referring to **claim 18**, see the rejection of claim 10 above.

7. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Warmus '149, Wu '767 and Venable '983, as applied to claim 13 above, and further in view of Smith '162.

Referring to **claim 14**, Smith '162 discloses wherein the overlay is applied on top of another sub-image that is merged with a page image(col. 14, lines 45-59, content object containing text, image or graphic content can be a block object within a frame object) (col. 2, lines 61-64, objects are assembled and printed).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to render a second sub-image as part of a first sub-image. The motivation for doing so would have been to facilitate modular construction of complex documents with considerable flexibility. Therefore, it would have been obvious to combine Smith '162 with Warmus '149 to obtain the invention as specified in claim 14.

8. Claims 16 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warmus '149, Wu '767 and Venable '983, as applied to claim 13 above, and further in view of well known prior art.

Referring to **claim 16**, see the rejection of claim 10 above.

Referring to **claim 17**, Warmus '149 discloses adding document indicia to a document but does not disclose expressly a watermark.

Official Notice is taken that it is well known and obvious in the art to utilize a watermark when printing a document (See MPEP 2144.03). The motivation for doing so would have been to protect a document from counterfeit. Therefore it would have been obvious to combine well known prior art with Warmus '149 to obtain the invention as specified in claim 17.

9. Claims 19, 20 and 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Warmus '149 in view of Simpson '803, Sinofsky '178 and Venable '983.

Referring to **claim 19**, Warmus '149 discloses a computer readable medium storing a computer program product for implementing within a computer system a method for dynamically adding one or more document indicia to a document when rendering the document, the computer program product comprising computer program code means utilized to implement the method, wherein the computer program code means is comprised of executable code for:

receiving a rendering job of a document at a rendering device, where the rendering job is in a native format that supports at least one of (i) multiple pages, and (ii) multiple images (col. 7, lines 24-54, the master and variable page files are converted into bitmaps and are sent to the printer), and wherein the rendering job contains:

one or more document indicia (col. 9, lines 57-61, personalized information, variable image, or the like) stored as separate sub-images in a native format (col. 7, lines 1-6, variable page files), wherein the one or more images are defined independently of and are not merged with the one or more sub-images (col. 20, lines 1-10, master pages 122);

defining how the one or more pages of the document should be merged with one or more of the sub-images (col. 7, lines 6-10, press command file specifies the manner in which data contained within the master and variable page files are to be merged to produce printed pages); and

an ordered subset of the sub-images to apply to the document (col. 7, lines 6-10, press command file specifies the manner in which data contained within the master and variable page files are to be merged to produce printed pages); and

using a rendering device process to associate and merge the one or more sub-images with one or more of the pages of the document when rendering the document, wherein the process is one of (i) an overlay process, (ii) an underlay process, and (iii) a composite process (col. 20, lines 1-10, overlay the variable pages on the master pages).

Warmus '149 does not disclose expressly rendering the document without using a printer driver.

Simpson '803 discloses rendering a document without using a printer driver (col. 1, lines 39-51, computer generates a print job without the use of a print driver).

Warmus '149 does not disclose expressly a rendering job of a document as a single file containing pages and indicia.

Sinofsky '178 discloses a single file document containing separate sub-images (col. 3, lines 6-19, compound document that contains sub-files).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to incorporate multiple files into one comprehensive file. The motivation for doing so would have been to maintain the integrity of the comprehensive file.

Warmus '149 discloses merging images onto a page but does not disclose expressly using tags of a document.

Venable '983 discloses one or more tags within the file defining how one or more pages of the document should be merged (col. 13-14, lines 48-67, 1-5, merge tags specify merging objects).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to utilize electronic tags to merge images. The motivation for doing so would have been to utilize a format that has minimal memory requirements but produces high resolution, high quality printed images. Therefore, it would have been obvious to combine Simpson '803, Sinofsky '178 and Venable '983 with Warmus '149 to obtain the invention as specified in claim 19.

Referring to **claim 20**, see the rejection of claim 2 above.

Referring to **claim 22**, Warmus '149 discloses wherein the one of the sub-images is merged with each of the images forming the pages of the document (col. 12, lines 2-14, block 154 of Fig. 9).

Referring to **claim 23**, Warmus '149 discloses wherein the other sub-images are selectively merged with the images forming the pages of the document (col. 12, lines 2-14, block 154 of Fig. 9).

Referring to **claim 24**, Venable '983 discloses wherein the native format is a tagged image file format and the sub-images are placed at a location of the pages of the document and at a scale defined by tags included in an image file directory of the single file, the tags therefore being defined independently of the pages of the document defined by the tagged image file format (col. 13-14, lines 48-67, 1-5, merge tags specify merging objects) (col. 6-7, lines 50-67, 1-25, each child is merged at a location defined as Merge Point).

Referring to **claim 25**, Venable '983 discloses where the tags define different scales and placements of a single sub-image within multiple images and pages of the rendering job (col. 6-7, lines 50-67, 1-25, each child is merged at a location defined as Merge Point).

10. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Warmus '149 Simpson '803, Sinofsky '178 and Venable '983 as applied to claim 19 above, and further in view of Smith '162.

Warmus '149 discloses merging sub-images but does not disclose expressly merging one sub-image into another sub-image.

Smith '162 discloses wherein the process associates and merges one or more of the sub-images into another sub-image to form a composite sub-image and merges the

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composite sub-image with one or more pages of the document (col. 14, lines 45-59, content object containing text, image or graphic content can be a block object within a frame object) (col. 2, lines 61-64, objects are assembled and printed).

At the time of the invention, it would have obvious to a person of ordinary skill in the art to render a second sub-image as part of a first sub-image. The motivation for doing so would have been to facilitate modular construction of complex documents with considerable flexibility. Therefore, it would have been obvious to combine Smith '162 with Warmus '149 to obtain the invention as specified in claim 21.

Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter K. Huntsinger whose telephone number is (571)272-7435. The examiner can normally be reached on 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Moore can be reached on (571)-272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Peter K. Huntsinger/
Examiner, Art Unit 2625

/David K Moore/
Supervisory Patent Examiner, Art Unit 2625